

Product datasheet for **RR208491**

Cnksr3 (NM_001012061) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnksr3 (NM_001012061) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnksr3
Synonyms:	Magi1; Prp4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208491 representing NM_001012061
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCGTGACCAAGTGGAGCCCCAACAAAGTGGTGGACTGGACTAGAGGGTTGGATGACTGCCTGC
 AGCCGTACGTCCACAAGTTTGGAGCGGGAGAAGATAGATGGGGAGCAGTTGCTAAAGATCTCCACCAGGA
 TCTCGAGGAAGTGGGGTACGCGGATCGGACCAAGAGCTGGTGTGGAGGCTGTGGACCTTCTCTGC
 GCACTGAATTATGGCCTTGAAGTGAACATGAAGAAGTGGTCTGAAGCTGCGGGCATCCTCCATA
 ATCTGCAGAAATACATAAGTAGCCGGGGAAGAGCCAGCCTACGATGGGAACACGTCCCGCAAGCCCC
 CAATGAGTTCCTGACTTCTGTGGTAGAGCTCATTGGTGTGCCAAGGCCCTGCTGGCTTGGCTGGATCGG
 GCTCCATTCACAGGGATCAGGATCTGTCGGTAACAAAGAACAAAATCATCCAAGTGTGCTGGACCTGA
 CCACAGCAGTCCAGAAGGATTGCCTCGTAGCAGAAATGGAGGATAAAGTTTTAAATGTGGTCAAGGTCTT
 GAATGGCATCTGTGACAAAATGATGCACCTACTACGGACCCTGTGATGAGCCAGTGCAGTGCCTGGAG
 GAAGTTCACTTACCGAATGTTAGACCCGGGGAAGGCTGGGCATGTACATCAAGTCAACCTATGATGGAC
 TGCATGTGATTACTGGAACACAGAAAATTCTCCTGCAGACAGATCTCAAAGATTTCATGCTGGTACGA
 GGTCAATCAAGTCAATCGGCAACAGTGGTTCGGTGGCAGTTGAAGAATCTGGTGAAGAAGTTGAGAGAG
 AATCCACAGGCGTGGTGTCTGCTGAAGAAGAGGCCACGGGCTCATTAGCTTCACTCCAGCCCCGC
 TGAAGAACCTGAGGTGGAAGCCACCCCTCGTGCAGACCTACCCCGCCACCACAACCCAGTCCCAGA
 GAGCACCATGGATGCCTCCCTGAAGAAGGAGAAGCCAGCCATCCTGGACCTATACATTCTCCCCACCT
 GCTGTTCCCTACTCTCCCGGGATGAGAACGTGAGTTTCAGCTATAGAGGACACACTAAGAGTAAACAGC
 CACTGCTGGGCGCAAGGGTCCGAGTCCCCTAACTCCTTCTGGACCAGGAGAGCCAGAGACGAGAT
 CACCATCACAGACTCCGATCAGCTACCCGGTACTCGGTGGGACCAATATTCTGCCATAAAAAATGAGA
 GGAAGACGCGCTCCTATGGCAAACCCCGCCTGTCCATGCCTGCAGATGGAACTGGATGGGGATTG
 TGGACCTTTTGCTAAACCTCGAGGTGATGGGAGGAAAGGGGAAGACGCCCTGTGCCGACTTTCAGCAA
 TGAGCGCATTACCCATCATTGAAGAAAGTGCCTCTCCCGTGTACCGGTTCTCCAGACCCTGACTGAG
 CGGCATCTGGTTCGAGGTGCGGACTACATCCGAGGGAGCAGGTGCTATATCAACTCTGATCTACACAGCA
 GCGCCACCATTCCATTCCAGGAGGAAGGGCCCAAGAAGAAGTCCGCTCCTCATCGGCCAAGGCGTCTTC
 TGGGAGCCGTCGCTGTTGGTACGCTGGCTGACTCGCCTCAAGCTGTTGACTCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208491 representing NM_001012061
 Red=Cloning site Green=Tags(s)

MEPVTKWSPKQVVDWTRGLDDCLQPYVHKFEREKIDGEQLLKISHQDLEELGVTRIGHQELVLEAVDLLC
 ALNYGLETDNMKNLVLKLRASSHNLQNYISSRRKSPAYDGNTSRKPPNEFLTSTVVELIGAAKALLAWLDR
 APFTGITDLSVTKNKIIQLCLDLTTAVQKDCLVAEMEDKVLNVVKVLNGICDKMMHSTTDPVMSQCACLE
 EVHLPNVRPGEGLGMYIKSTYDGLHVITGTTENSPADRSQKIHAGDEVIQVNRQTVVWQLKNLVKLLRE
 NPTGVVLLLLKKRPTGSFSFTPAPLKNLRWKPPLVQTSPPPTTTSPESTMDASLKEKPAILDLYIPPPP
 AVPYSPRDENVVSFSYRGHTKSKQPLPGRKGSESPNSFLDQESQRRRFTITDSDQLPGYSVGTNILPIKMR
 GKTPSYGKPRPLSMPADGNWMI VDPFAKPRGHGRKGEDALCRYFSNERITPIIEESASPVYRFSRPLTE
 RHLVRGADYIRGSRCYINSDLHSSATIPFQEEGPKKKSASSSAKASSGEPSSLVSWLTRLKLLTH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

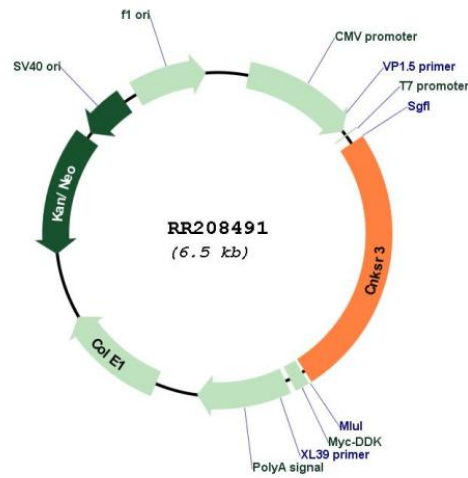
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001012061
ORF Size:	1665 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001012061.1 , NP_001012061.1
RefSeq Size:	3350 bp
RefSeq ORF:	1668 bp
Locus ID:	308113
UniProt ID:	Q5SGD7
Cytogenetics:	1q11
MW:	61.9 kDa
Gene Summary:	Involved in transepithelial sodium transport. Regulates aldosterone-induced and epithelial sodium channel (ENaC)-mediated sodium transport through regulation of ENaC cell surface expression. Acts as a scaffold protein coordinating the assembly of an ENaC-regulatory complex (ERC).[UniProtKB/Swiss-Prot Function]